



**OU1 Design Change and Modification Sheet:
Change/Modification # 33**

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 6/6/12 Date Executed: 6/6/12

Property ID: _____ Operable Unit 1

Design Change / Modification Description:

OU1-Remedial Action, restoration Seeding Schedule

Reference attached drawing for detail.

Changes marked on Quality Control Plans? Yes X No _____

Signatures:

Approved:

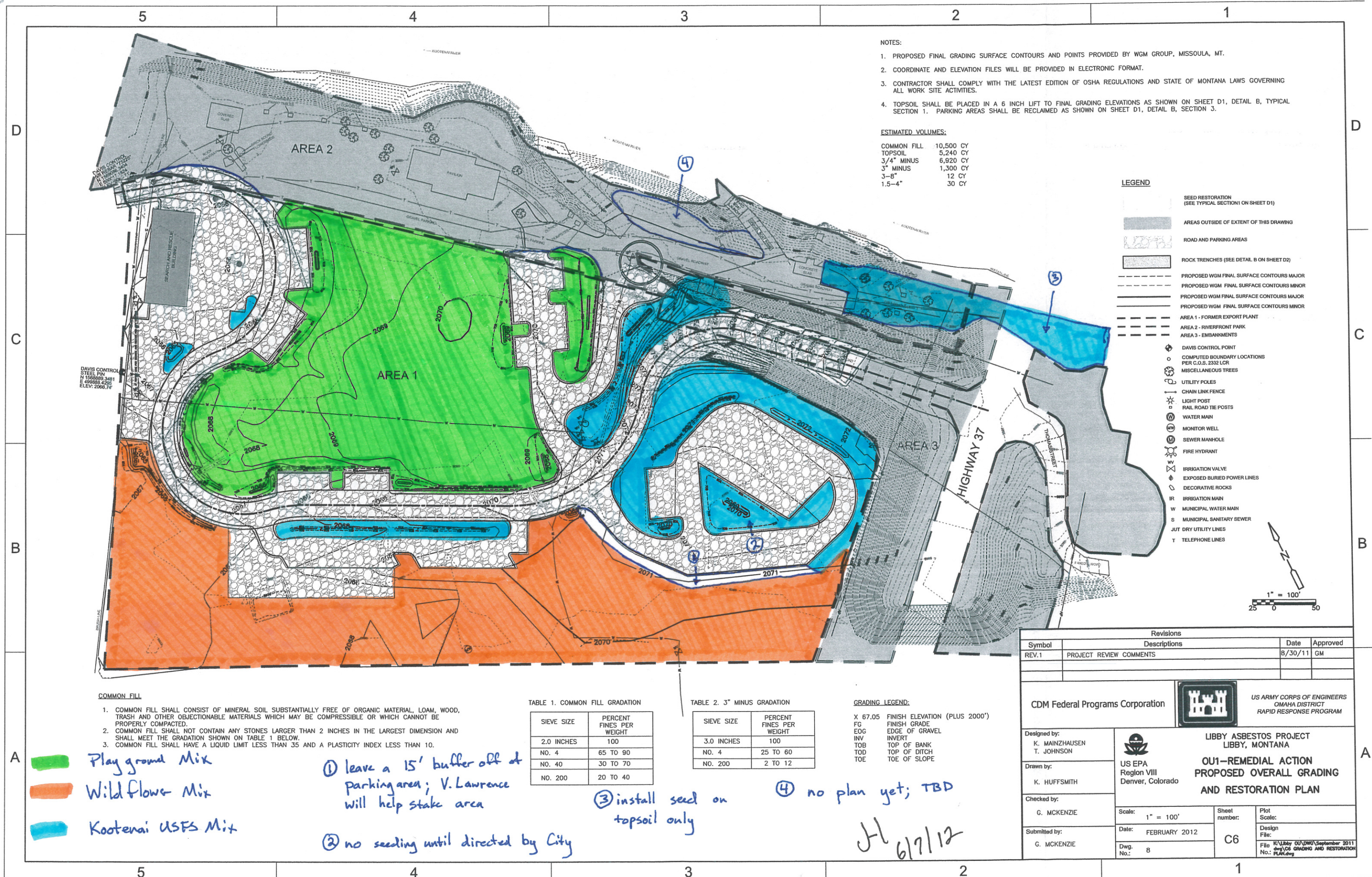
USACE or EPA: [Signature] Date: 6/6/12

City of Libby: Jim Hammond Date: 6/7/12

Acknowledged:

CQC: [Signature] Date: 6/7/12

TQA: [Signature] Date: 6/7/12

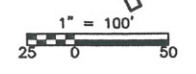


- NOTES:
1. PROPOSED FINAL GRADING SURFACE CONTOURS AND POINTS PROVIDED BY WGM GROUP, MISSOULA, MT.
 2. COORDINATE AND ELEVATION FILES WILL BE PROVIDED IN ELECTRONIC FORMAT.
 3. CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND STATE OF MONTANA LAWS GOVERNING ALL WORK SITE ACTIVITIES.
 4. TOPSOIL SHALL BE PLACED IN A 6 INCH LIFT TO FINAL GRADING ELEVATIONS AS SHOWN ON SHEET D1, DETAIL B, TYPICAL SECTION 1. PARKING AREAS SHALL BE RECLAIMED AS SHOWN ON SHEET D1, DETAIL B, SECTION 3.

ESTIMATED VOLUMES:

COMMON FILL	10,500 CY
TOPSOIL	5,240 CY
3/4" MINUS	6,920 CY
3" MINUS	1,300 CY
3-8"	12 CY
1.5-4"	30 CY

- LEGEND
- SEED RESTORATION (SEE TYPICAL SECTION 1 ON SHEET D1)
 - AREAS OUTSIDE OF EXTENT OF THIS DRAWING
 - ROAD AND PARKING AREAS
 - ROCK TRENCHES (SEE DETAIL B ON SHEET D2)
 - PROPOSED WGM FINAL SURFACE CONTOURS MAJOR
 - PROPOSED WGM FINAL SURFACE CONTOURS MINOR
 - PROPOSED WGM FINAL SURFACE CONTOURS MAJOR
 - PROPOSED WGM FINAL SURFACE CONTOURS MINOR
 - AREA 1 - FORMER EXPORT PLANT
 - AREA 2 - RIVERFRONT PARK
 - AREA 3 - EMBANKMENTS
 - DAVIS CONTROL POINT
 - COMPUTED BOUNDARY LOCATIONS PER C.O.S. 2332 LCR
 - MISCELLANEOUS TREES
 - UTILITY POLES
 - CHAIN LINK FENCE
 - LIGHT POST
 - RAIL ROAD TIE POSTS
 - WATER MAIN
 - MONITOR WELL
 - SEWER MANHOLE
 - FIRE HYDRANT
 - IRRIGATION VALVE
 - EXPOSED BURIED POWER LINES
 - DECORATIVE ROCKS
 - IR IRRIGATION MAIN
 - W MUNICIPAL WATER MAIN
 - S MUNICIPAL SANITARY SEWER
 - JUT DRY UTILITY LINES
 - T TELEPHONE LINES



- COMMON FILL
1. COMMON FILL SHALL CONSIST OF MINERAL SOIL SUBSTANTIALLY FREE OF ORGANIC MATERIAL, LOAM, WOOD, TRASH AND OTHER OBJECTIONABLE MATERIALS WHICH MAY BE COMPRESSIBLE OR WHICH CANNOT BE PROPERLY COMPACTED.
 2. COMMON FILL SHALL NOT CONTAIN ANY STONES LARGER THAN 2 INCHES IN THE LARGEST DIMENSION AND SHALL MEET THE GRADATION SHOWN ON TABLE 1 BELOW.
 3. COMMON FILL SHALL HAVE A LIQUID LIMIT LESS THAN 35 AND A PLASTICITY INDEX LESS THAN 10.

TABLE 1. COMMON FILL GRADATION

SIEVE SIZE	PERCENT FINES PER WEIGHT
2.0 INCHES	100
NO. 4	65 TO 90
NO. 40	30 TO 70
NO. 200	20 TO 40

TABLE 2. 3" MINUS GRADATION

SIEVE SIZE	PERCENT FINES PER WEIGHT
3.0 INCHES	100
NO. 4	25 TO 60
NO. 200	2 TO 12

- GRADING LEGEND:
- X 67.05 FINISH ELEVATION (PLUS 2000')
 - FG FINISH GRADE
 - EOG EDGE OF GRAVEL
 - INV INVERT
 - TOD TOP OF BANK
 - TOD TOP OF DITCH
 - TOE TOE OF SLOPE

- Playground Mix
- Wildflower Mix
- Kootenai USFS Mix

- ① leave a 15' buffer off of parking area; V. Lawrence will help stake area
- ② no seeding until directed by City
- ③ install seed on topsoil only
- ④ no plan yet; TBD

HL 6/7/12

Revisions			
Symbol	Descriptions	Date	Approved
REV.1	PROJECT REVIEW COMMENTS	8/30/11	GM

CDM Federal Programs Corporation

US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
RAPID RESPONSE PROGRAM

Designed by:
K. MAINZHAUSEN
T. JOHNSON

Drawn by:
K. HUFFSMITH

Checked by:
G. MCKENZIE

Submitted by:
G. MCKENZIE

US EPA
Region VIII
Denver, Colorado

LIBBY ASBESTOS PROJECT
LIBBY, MONTANA
OU1-REMEDIATION ACTION
PROPOSED OVERALL GRADING
AND RESTORATION PLAN

Scale: 1" = 100'

Date: FEBRUARY 2012

Dwg. No.: 8

Sheet number:
C6

Plot Scale:

Design File:
File: R:\Libby OU1\DWG\September 2011
dwg\OU1 GRADING AND RESTORATION
No.: PLAN.dwg